Liberty DXX CrossFire™ Series

Liberty DXX

No More Limits.

CROSS FIRE™ CERTIFIED

DXX ready PCI EXPRESS 6+2P(8P)

— **DUAL QUAD DUAL** + $\frac{18}{15}$ —
CPU   CORE   GRAPHICS   DRIVES

400W/500W/620W

Features

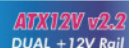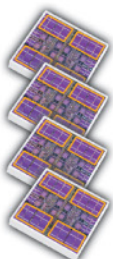|	
DXX ready PCI EXPRESS 6+2P(8P)	DXX Ready for PCI Express 2.0 / DXX next generation graphic cards with 6+2P (8P) PCI Express connector.
CROSS FIRE™ CERTIFIED	CrossFire™ Certified. (ENERMAX Liberty DXX CrossFire™ ELT400AWT-01,ELT500AWT-01,ELT620AWT-01)
ATX12V v2.2 DUAL +12V Rail	Full compliance with the highest standard to desktop power requirements. Split 12V rails provide most stable current to CPU, GPU, MB and drives.
CPU & CORE	Full support of Dual/Quad Core systems (incl. Core 2 Duo/Quad and Athlon 64 X2) & Dual CPU systems
ATX/BTX CEB/EEB	Convertible design to power up ATX/BTX systems and support Dual CPU entry-level server/workstation.
Active PFC Universal 100~240VAC	PF value up to 0.99 to provide stable and clean power under 100-240VAC by auto switching.
80% Efficiency	High efficiency of about 80% under wide load range (30-100%) minimizes your electricity bill.
12cm Silent Fan	Special design 12cm fan combines silence and cooling by intelligent speed control.
Stable & Reliable	Protected by OCP, OVP, UVP, OLP, SCP, OTP for maximum safety. Full rated power under 0-40℃/32-104℉ ambient temp.
Modular Cable	Smarter cable choice and better cable routing for a neat and tidy case.
∑(+) TERNITY	Unique 4P Molex + SATA connectors in pairs give you free choice on using either PATA or SATA devices.
PCI EXPRESS x2	Support of Dual PCI-E graphics cards .
EMI Maximum Shielding	Toughest EMI shielding protects your system and near-by appliances.

ENERMAX

— **DUAL QUAD DUAL + 18** —
CPU   CORE   GRAPHICS   DRIVES
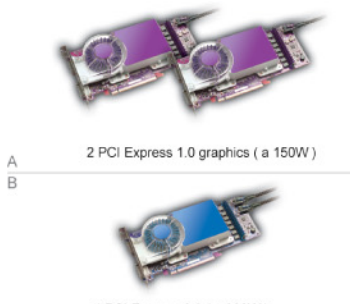
A   2 PCI Express 1.0 graphics (a 150W)
B

1 PCI Express 2.0 (a 300W)

DUAL
CPU

QUAD
CORE

DUAL
GRAPHICS

+ 18
DRIVES

* Actual maximum support might vary by power consumption of connected components and is limited to DC output specifications

DXX ready

We are **DXX** **ready**

PCI EXPRESS®
6+2P(8P)

are You?

6P

6P
6P

6P
8P

PCI Express 2.0 was announced on January 15th by the PCI-SIG, an industry group of currently more than 850 companies like AMD, Broadcom, HP, IBM, Intel, LSI Logic, Microsoft and nVIDIA. It defines the standards for the next generation of motherboards and graphic cards, commonly dubbed as DirectX 10 capable. This new architecture effectively boosts their performance and utilization compared to their DirectX 9 / PCI Express 1.0 predecessor enormously and requires a new 8P power connector.
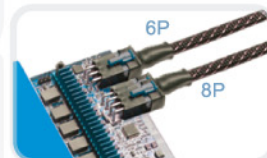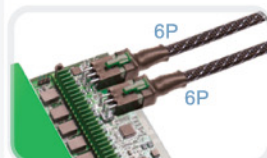
Multiple Protections

Liberty DXX will turn off to protect itself and your system from damage.

	12V1	12V2	3.3V	5V	-12V	+5Vsb
OCP	yes	yes	yes	yes	no	no
OLP	on 110 - 160% on maximum output					
SCP	yes	yes	yes	yes	no	yes
OVP	yes	yes	yes	yes	yes	yes
UVP	yes	yes	yes	yes	no	yes
OTP	yes					

(OCP = Over Current Protection, OLP = Over Load P., SCP = Short Circuit P., OVP = Over Voltage P., UVP = Under Voltage P., OTP = Over Temperature P.)

Certifications & Standards

| Safety	(N) (D) (S) (FI) D43028 BZ02 E134014 TÜV Rheinland Product Safety / BAUART GEPRÜFT TYPE APPROVED
EMC	CE / FC Tested To Comply With FCC Standards FOR HOME OR OFFICE USE / MIC

RoHS

*Special UL Level 3 class available for OEM/ODM order.

ENERMAX

Spec \ Model Name	ELT400AWT-01		ELT500AWT-01		ELT620AWT-01	
AC Input Rating						
Input Voltage	100-240VAC , -50-60Hz, Active PFC					
Current Input	6A -2.5A		7.5A -3.5A		9.5A-4A	
DC Output						
+3.3V	26A	150W	28A	160W	28A	170W
+5V	28A		30A		32A	
+12V1	20A	360W (30A)	22A	384W (32A)	22A	432W (36A)
+12V2	20A		22A		22A	
-12V	0.6A	7.2W	0.6A	7.2W	0.6A	7.2W
+5Vsb	3A	15W	3A	15W	3A	15W
Total Power	400W		500W		620W	

Cables & Connectors

DXX ready PCI EXPRESS 6+2P(8P)

Native cables Graphics Sockets Peripheral Sockets
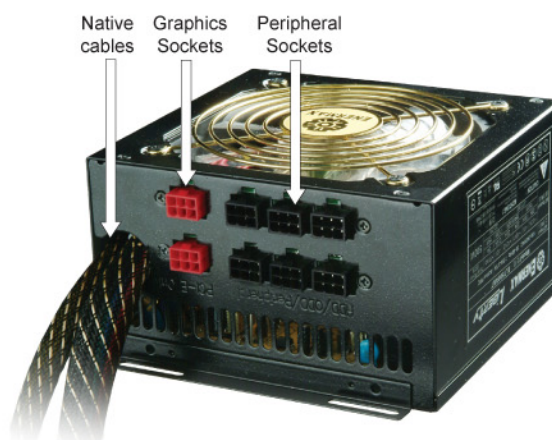
Native Cables

20+4P Mainboard x **1**

4+4P CPU 12V x **1**

FM(Fan RPM)

Modular Cables

	ELT400AWT-01	ELT500AWT-01	ELT620AWT-01
EMC003: 2 x SATA + 2 x 4P Molex (ETERNITY) 4P Molex SATA 4P Molex SATA	2	2	3
EMC004: 6P PCI-E PCI-E	1	1	1
EMC005: 2 x SATA + 2 x 4P Molex + FDD (ETERNITY + FDD) 4P Molex SATA 4P Molex SATA FDD	1	2	2
EMC008: 6+2P (8P) PCI-E 2.0 / DXX COMBO CONNECTOR 6+2P PCI-E (To Graphics Card) Connectors to PSU	1	1	1

*Modular cable configurtion might vary for certain regional pack version.

ENERMAX